

# Q.PEAK DUO-G5 315-330

## Q.ANTUM SOLAR MODULE

The new **Q.PEAK DUO-G5** solar module from Q CELLS impresses thanks to innovative **Q.ANTUM DUO** Technology, which enables particularly high performance on a small surface. Q.ANTUM's world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a six-busbar design, thus achieving outstanding performance under real conditions — both with low-intensity solar radiation as well as on hot, clear summer days.



### Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY

Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.9%.



### INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behaviour.



### ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID Technology, Anti PID Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Tra.Q™.



### EXTREME WEATHER RATING

High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



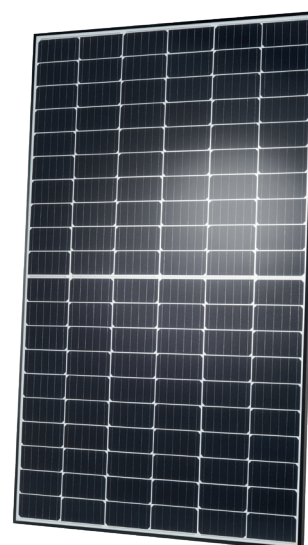
### A RELIABLE INVESTMENT

Inclusive 12-year product warranty and 25-year linear performance warranty<sup>2</sup>.



### STATE OF THE ART MODULE TECHNOLOGY

Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.



### THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings



Rooftop arrays on commercial/industrial buildings

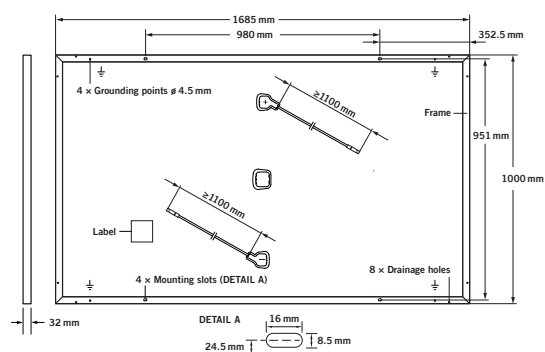
Engineered in **Germany**

**Q CELLS**

<sup>1</sup> APT test conditions according to IEC/TS 62804-1:2015, method B (–1500V, 168h)

<sup>2</sup> See data sheet on rear for further information.

MECHANICAL SPECIFICATION	
<b>Format</b>	1685 mm × 1000 mm × 32 mm (including frame)
<b>Weight</b>	18.7 kg
<b>Front Cover</b>	3.2 mm thermally pre-stressed glass with anti-reflection technology
<b>Back Cover</b>	Composite film
<b>Frame</b>	Black anodised aluminium
<b>Cell</b>	6 × 20 monocrystalline Q.ANTUM solar half cells
<b>Junction box</b>	70-85 mm × 50-70 mm × 13-21 mm Protection class IP67, with bypass diodes
<b>Cable</b>	4 mm <sup>2</sup> Solar cable; (+) 1100 mm, (–) 1100 mm
<b>Connector</b>	Multi-Contact, MC4, IP68



ELECTRICAL CHARACTERISTICS				315	320	325	330
POWER CLASS							
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC <sup>1</sup> (POWER TOLERANCE +5 W / –0 W)							
Minimum	Power at MPP <sup>1</sup>	P <sub>MPP</sub>	[W]	315	320	325	330
	Short Circuit Current <sup>1</sup>	I <sub>SC</sub>	[A]	10.04	10.09	10.14	10.20
	Open Circuit Voltage <sup>1</sup>	V <sub>OC</sub>	[V]	39.87	40.13	40.40	40.66
	Current at MPP	I <sub>MPP</sub>	[A]	9.55	9.60	9.66	9.71
	Voltage at MPP	V <sub>MPP</sub>	[V]	32.98	33.32	33.65	33.98
	Efficiency <sup>1</sup>	η	[%]	≥ 18.7	≥ 19.0	≥ 19.3	≥ 19.6
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>2</sup>							
Minimum	Power at MPP	P <sub>MPP</sub>	[W]	235.3	239.0	242.8	246.5
	Short Circuit Current	I <sub>SC</sub>	[A]	8.09	8.13	8.17	8.22
	Open Circuit Voltage	V <sub>OC</sub>	[V]	37.52	37.77	38.02	38.27
	Current at MPP	I <sub>MPP</sub>	[A]	7.52	7.56	7.60	7.64
	Voltage at MPP	V <sub>MPP</sub>	[V]	31.30	31.62	31.94	32.25

<sup>1</sup>Measurement tolerances P<sub>MPP</sub> ± 3%; I<sub>SC</sub>, V<sub>OC</sub> ± 5% at STC: 1000 W/m<sup>2</sup>, 25 ± 2 °C, AM 1.5 G according to IEC 60904-3 - <sup>2</sup>800 W/m<sup>2</sup>, NMOT, spectrum AM 1.5 G

Q CELLS PERFORMANCE WARRANTY		PERFORMANCE AT LOW IRRADIANCE
<p>At least 98% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% of nominal power up to 25 years.</p> <p>All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.</p>	<p>Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m<sup>2</sup>).</p>	

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of I <sub>SC</sub>	α	[%/K]	+0.04	Temperature Coefficient of V <sub>OC</sub>	β	[%/K]	–0.28
Temperature Coefficient of P <sub>MPP</sub>	γ	[%/K]	–0.37	Normal Module Operating Temperature	NMOT	[°C]	43 ± 3

PROPERTIES FOR SYSTEM DESIGN					
Maximum System Voltage**	V <sub>sys</sub>	[V]	1000	Safety Class	II
Maximum Reverse Current	I <sub>R</sub>	[A]	20	Fire Rating	C
Max. Design Load, Push / Pull		[Pa]	3600/2667	Permitted Module Temperature on Continuous Duty	–40 °C up to +85 °C
Max. Test Load, Push / Pull		[Pa]	5400/4000		

QUALIFICATIONS AND CERTIFICATES	PACKAGING INFORMATION
VDE Quality Tested, IEC 61215:2016; IEC 61730:2016, Application class A This data sheet complies with DIN EN 50380.	Number of Modules per Pallet 32
	Number of Pallets per 40' High Cube Container 26
	Number of Modules per 40' High Cube Container 832

**NOTE:** Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

Made in Korea

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Engineered in Germany

